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Bibliography

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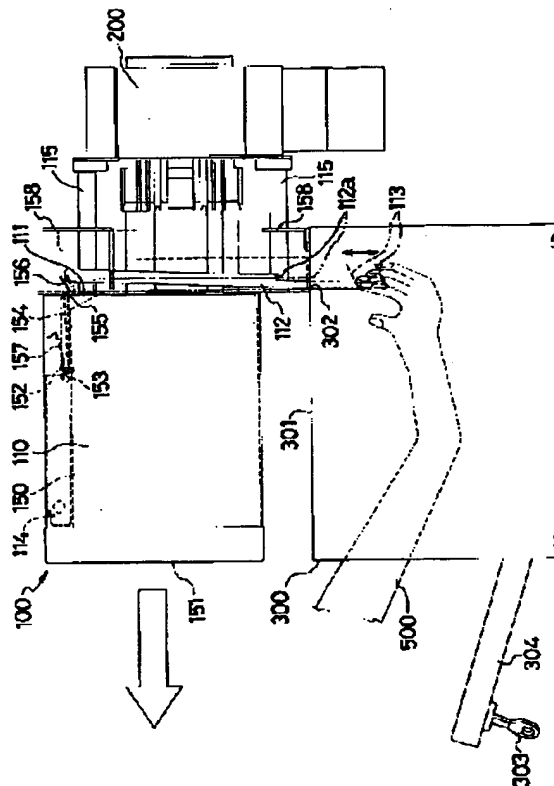
Summary

(57) [Abstract]

[Technical problem] It is made for the subject member of the bill acceptance transport device between bases which receives a bill and is conveyed to a tooth-back side not to drop a subject member from a fixed frame member accidentally in the thing it enabled it to draw out simply if needed.

[Means for Solution] a fixed frame — the fall prevention means 114 established inside the member 110, and a subject — the fall prevention means 157 of a member 150 — a subject — a member 150 — a fixed frame — when it was engaged just before being drawn out from a member 110, and the nose-of-cam side of the fall prevention means 157 was pushed on the lower part with the finger from the upper part, it prepared so that the point of the fall prevention means 157 might incline to the drawing down side and engagement of the fall prevention means 114-157

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CLAIMS

[Claim(s)]

[Claim 1] The bill acceptance transport device between bases which is characterized by preparing a fall prevention means to have the following, and for it to be engaged mutually [before a subject member is drawn out completely], and to prevent fall of the main soma material in a fixed frame member and a subject member and which is installed in the upper part of a game medium loan machine, and is installed by the game machine. Fixed frame part material installed in the upper part of a game medium loan machine The main soma material which delivers the bill which it is installed in this fixed frame member possible [insertion and detachment], and is received from a front face to the main transport device installed in a tooth back

[Claim 2] The bill acceptance transport device between bases according to claim 1 characterized by forming one [at least] fall prevention means possible [release] by acupressure in engagement of fall prevention meanses using a spring member.

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DETAILED DESCRIPTION

[Detailed Description of the Invention]

[0001]

[The technical field to which invention belongs] this invention is installed in the upper part of the game medium loan machine installed by game machines, such as a pachinko machine and a slot machine, in an amusement center hole, has input port of the bill paid in case a game visitor borrows game media used for a game, such as a pachinko ball and metal, in the front section, and relates to the bill acceptance transport device between bases which conveys the bill into which it was put by the input port to the main transport device installed in a tooth back.

[0002]

[Description of the Prior Art] The bill acceptance transport device 100 between bases is installed among the game machines 400, such as a pachinko machine installed lining up side-by-side as shown in drawing 3 , and a slot machine.

[0003] The bill acceptance transport device 100 between bases shown in drawing 3 The fixed frame part material 110 attached in the upper part of the game medium loan machine 300 as shown in drawing 4 , It consists of main soma material 150 prepared in this fixed frame part material 110 possible [insertion and detachment]. While the main soma material 150 has bill input port 151 for putting in the bill paid in case a game visitor borrows game media used for a game, such as a pachinko ball and metal, in the front section The interior is equipped with a bill check means to check the truth or falsehood of the bill 900 thrown into bill input port 151, a conveyance means to convey to a tooth-back side, etc. (neither is illustrated), and it is constituted.

[0004] what was worn out in the bill 900 thrown into bill input port 151 -- it is -- a subject -- since bill plugging may occur in the bill conveyance means of a member 150, the main transport device 200 installed in the tooth-back section, the choked bill removes simply -- as -- a subject -- a member 150 -- a fixed frame -- it has structure which can be drawn out from a member 110

[0005] moreover, the bill acceptance transport device 100 between bases -- a subject -- a member 150 -- a fixed frame, since the main transport device 200 currently installed in the tooth-back section will become open and it will become possible to sample the bill which is having that conveyed, if drawn out from a member 110 The drawing-out prevention mechanism as shown in drawing 4 is established so that the bill currently conveyed towards the safe 201 prepared in the edge of the game island 450 by the main transport device 200 may not be stolen by the bad game visitor or junior salesclerk of behavior.

[0006] Namely, it sets to the bill acceptance transport device 100 between bases of composition of having been shown in drawing 4 . It is energized and attached in the drawing-out prevention means 111 which consists of perpendicular Itabe material of the fixed frame part material 110, and the upper part of the main soma material 150 downward [drawing] with a screw 152 and coiled spring 153. The engagement portion 155 crooked downward [of a drawing-out prevention means 154 by which a point consists of flat spring projected to the tooth-back side] a subject -- a member 150 -- a fixed frame, while carrying out by the ability not engaging and sampling, when pushed into the back installation section from the front section of a member 110 If unlock the upper end rail 451 with which the bill acceptance transport device 100 between bases is installed, open like drawing 4 , an arm 500 is inserted, a finger 501 is hung on the control unit 156 which inclined in the upper part from the soffit section of the engagement portion 155 and the force of drawing facing up is applied Coiled spring 153 deforms, a control unit 156 side is raised, engagement into the engagement portions 155 of the drawing-out prevention means

111 of the fixed frame part material 110 and the drawing-out prevention means 154 by the side of the main soma material 150 is canceled, and the drawing ahead of the main soma material 150 is possible.

[0007]

[Problem(s) to be Solved by the Invention] However, it sets to the bill acceptance transport device between bases of composition of having been shown in above-mentioned drawing 4. Since the subject member was drawn out as it was when engagement of drawing-out prevention meanses was canceled, Since the subject member which was equipped with a means to convey towards the main transport device by the side of a tooth back, and became heavy was dropped on the leg, it might be injured or equipment might be broken [**** / checking the truth or falsehood of an injection bill], it was the technical problem which needs to carry out to the composition on which a subject member is not dropped, and this should solve.

[0008]

[Means for Solving the Problem] In the bill acceptance transport device between bases which is installed in the upper part of a game medium loan machine, and is installed by the game machine in order that this invention may solve the technical problem of the above-mentioned conventional technology It is installed in the fixed frame member installed in the upper part of a game medium loan machine, and this fixed frame member possible [insertion and detachment]. It consists of a subject member which delivers the bill received from a front face to the main transport device installed in a tooth back. The bill acceptance transport device between bases of the 1st composition of having prepared a fall prevention means for it to have been engaged mutually [before a subject member is drawn out completely], and to prevent fall of the main soma material in the fixed frame member and the subject member, and [0009] In the bill acceptance transport device 1 between bases of the composition of the above 1st, it is the thing which formed one [at least] fall prevention means for engagement of fall prevention meanses possible [release] by acupressure using the spring member and which offers the bill acceptance transport device between bases of the 2nd composition.

[0010]

[Embodiments of the Invention] Hereafter, 1 operation gestalt of this invention is explained based on a drawing. The bill acceptance transport device 100 between bases of this invention shown in drawing 1 and drawing 2 is equipped with the engagement release means 112 and the fall prevention means 114-157 with which the bill acceptance transport device 100 between bases shown in aforementioned drawing 4 was not equipped.

[0011] Incurvation formation of the cylindrical engagement release means 112 is carried out from a board member at the shape of a cross-section KO character in which for example, drawing right-hand side carried out opening. The upper-limit section is located in the fixed frame part material 110 at the control unit 156 bottom of the drawing-out prevention means 154 of the main soma material 150 by which

insertion installation was carried out. If the soffit section escapes from the hole 302 established to the top plate 301 of the game medium loan machine 300, and is located inside the game medium loan machine 300 which can be locked, the control unit 113 of the soffit section which carried out incurvation formation is grasped and it pushes up up. If the upper-limit section pushes up further and makes coiled spring 153 transform in the control unit 156 bottom of the drawing-out prevention means 154, it is prepared so that engagement for the drawing-out prevention means 111 of the fixed frame part material 110 and the drawing-out prevention means 154 (control unit 156) of the main soma material 150 may be canceled.

[0012] Namely, locking/unlocking of a front door 304 are prepared possible with the key 303 which the upper salesclerk whom the game medium loan machine 300 replaces with a chief of the shop or it possesses. The control unit 113 of the soffit section of the engagement release means 112 is located in the interior of the game medium loan machine 300 with which a front face is opened wide. The portion is grasped and the engagement release means 112 is pushed up up, and it is constituted so that engagement for the drawing-out prevention means 111 of the fixed frame part material 110 and the drawing-out prevention means 154 (control unit 156) of the main soma material 150 can be canceled.

[0013] Moreover, the bottom is thicker than the hole 302 of a top plate 301, and the engagement release means 112 is formed so that it may not be buried in the interior of the game medium loan machine 300. That is, the engagement release means 112 has a **** [a / step 112] thicker than a hole 302, under surface than step 112a is thinner than a hole 302, and step 112a engages with the surrounding top plate 301 of a hole 302, and falls.

[0014] Therefore, the main soma material 150 is pushed in to the position of the fixed frame part material 110. a subject — the drawing-out prevention means 154 of a member 150, and a fixed frame — the drawing-out prevention means 111 of a member 110 being made engaged, and by locking the front door 304 of the game medium loan machine 300. Since operation of the engagement release means 112 becomes impossible and it becomes impossible to draw out the main soma material 150, the bill currently conveyed by the main transport device 200 at the safe 201 is not stolen by the bad game visitor or junior salesclerk of behavior.

[0015] On the other hand, if it unlocks and the front door 304 of the game medium loan machine 300 is opened, will put in an arm 500 into it and the engagement release means 112 will be pushed up. a subject — the drawing-out prevention means 154 of a member 150, and a fixed frame — canceling engagement for the drawing-out prevention means 111 of a member 110 — possible — the state — a subject — a member 150 — a fixed frame, since it can draw out from a member 110. Even if it gets blocked the bill currently conveyed in the safe 201 with the main transport device 200, the choked bill can be removed easily.

[0016] The fall prevention means 157 is formed in the shape of a hook, is with the screw 152 and coiled spring 153 which energize the drawing-out prevention means

154 downward [drawing], and are fixed to the main soma material 150, and is energized and attached in the same main soma material 150 at drawing facing up. this fall prevention means 157 — a subject — a member 150 — a fixed frame — just before being drawn out from a member 110 — a fixed frame — if it engages with the fall prevention means 114 projected and established inside the anterior of a member 110, the drawing to the front is prevented as it is and a nose-of-cam side is caudad pushed with a finger from the upper part, coiled spring 153 will deform, a point will incline in drawing down, and engagement for the fall prevention means 114 will be canceled

[0017] Therefore, since the truth or falsehood of the thrown-in bill 900 are checked or it has a means to convey towards the main transport device 200 by the side of a tooth back, it has not been said that the main soma material 150 which is heavy is drawn out carelessly, and is dropped from the fixed frame part material 110.

[0018] moreover, this bill acceptance transport device 100 between bases — setting — the supporter material 158 — a fixed frame — connection of the two upper and lower sides by which the member 110 side was supported — a member 115 — minding — a fixed frame — a member 110 connects with the main transport device 200 — having — a subject — it is constituted so that the whole may not incline forward, even if a member 150 becomes heavy

[0019] In addition, since this invention is not limited to the above-mentioned operation gestalt, various kinds of deformation implementation in the range which does not deviate from the meaning of a publication to a claim is possible for it.

[0020] For example, drawing-out prevention means 154 and the fall prevention means 157 can also be formed using flat spring. And when forming drawing-out prevention means 154 and the fall prevention means 157 by the flat spring member, one board member to the drawing-out prevention means 152 is greatly formed for the drawing-out prevention means 152 and the fall prevention means 157, for example, and a slit is put in there, a part for a center section is pulled up upwards, and you may make it form the fall prevention means 157 in this portion pulled up.

[0021] Moreover, it is also possible for the fall prevention means 114 of the fixed frame part material 110 and the fall prevention means 157 of the main soma material 150 to prepare possible [engagement into a side plate portion, a bottom plate portion, etc. of each member].

[0022]

[Effect of the Invention] Since drawing becomes impossible according to this invention just before the subject member of the bill acceptance transport device between bases is drawn out from a fixed frame member as explained above, even if a subject member is heavy, having said that it drops on a leg, and it was injured or equipment was broken is lost.

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DESCRIPTION OF DRAWINGS

[Brief Description of the Drawings]

[Drawing 1] It is explanatory drawing showing 1 operation gestalt of this invention, and is drawing showing the state where receipt installation of the subject member is carried out in the predetermined position.

[Drawing 2] It is explanatory drawing showing 1 operation gestalt of this invention, and is drawing showing the state where the subject member is pulled out to the front.

[Drawing 3] It is explanatory drawing showing the use gestalt of 1 operation gestalt.

[Drawing 4] It is explanatory drawing showing the conventional technology.

[Description of Notations]

100 Bill Acceptance Transport Device between Bases

110 Fixed Frame Part Material

111 Drawing-Out Prevention Means

112 Engagement Release Means

113 Control Unit

114 Fall Prevention Means

115 Connection — Member

150 The Main Soma Material

151 Bill Input Port

152 Screw

153 Coiled Spring

154 Drawing-Out Prevention Means

155 Engagement Portion

156 Control Unit

157 Fall Prevention Means

158 Supporter Material

200 The Main Transport Device

201 Safe

300 Game Medium Loan Machine

301 Top Plate

302 Hole
303 Key
304 Front Door
400 Game Machine
450 Game Island
451 End Rail
500 Arm
501 Finger
900 Bill

[Translation done.]

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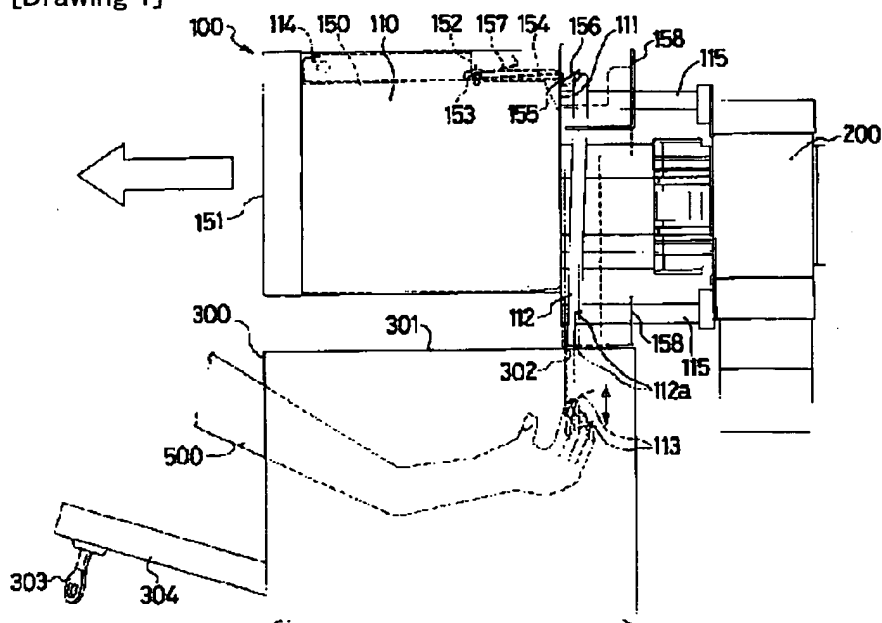
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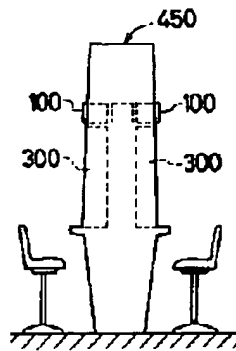
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DRAWINGS

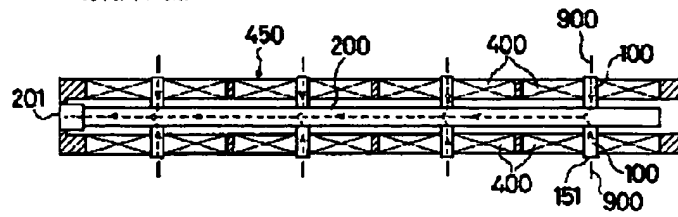
[Drawing 1]



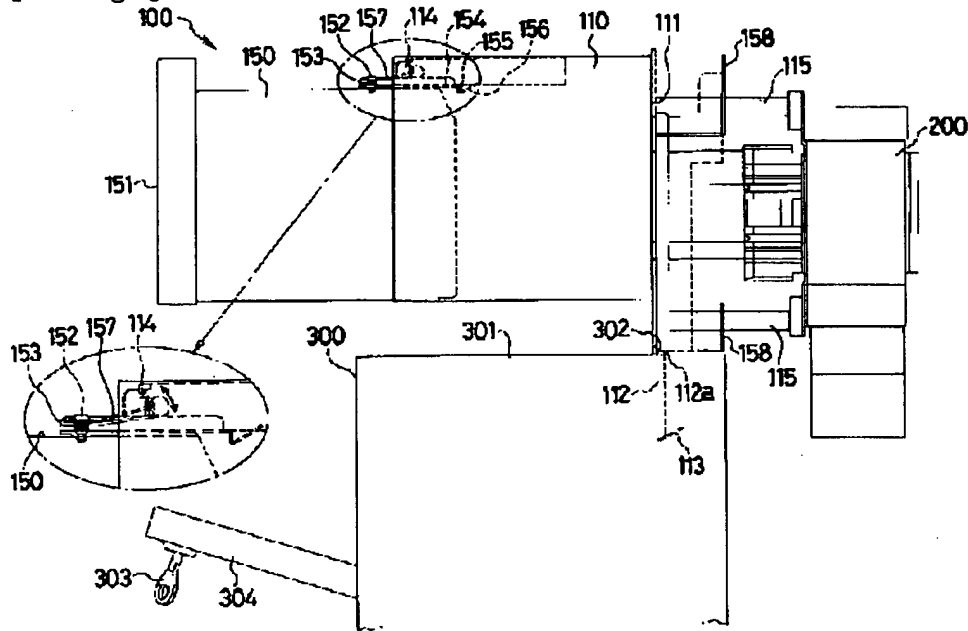
[Drawing 3]
(侧面图)



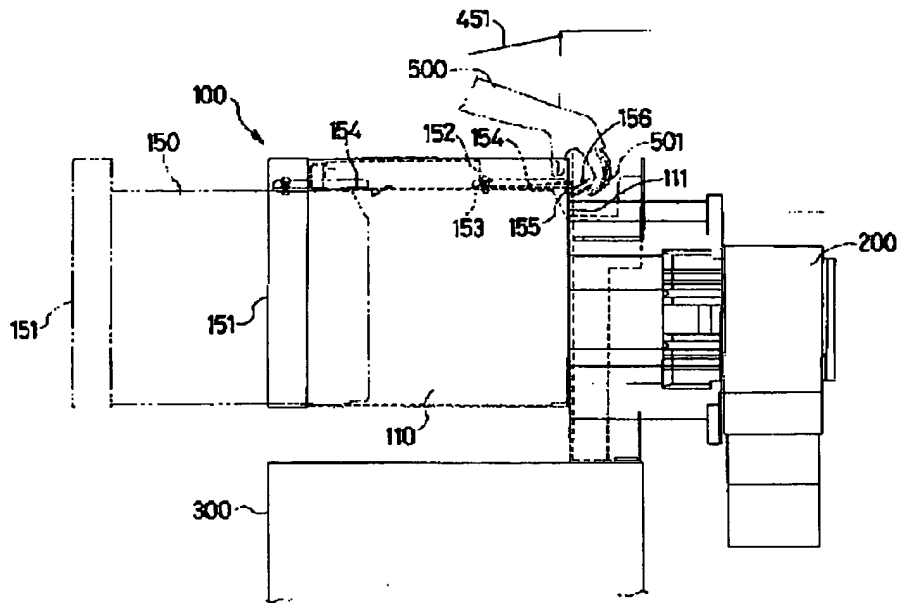
(横断平面图)



[Drawing 2]



[Drawing 4]



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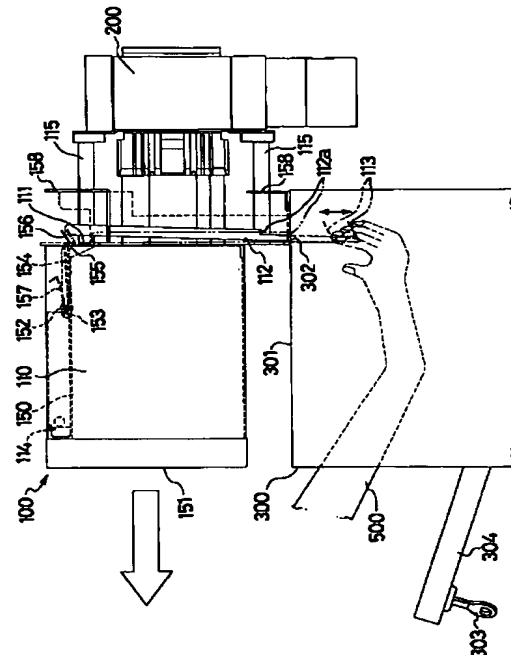
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(54) 【発明の名称】 台間紙幣受入搬送装置

(57) 【要約】

【課題】 紙幣を受け取って背面側に搬送する台間紙幣受入搬送装置の主体部材が必要に応じて固定枠部材から簡単に引き抜けるようにしたものにおいて、主体部材を誤って落とすことがないようにする。

【解決手段】 固定枠部材 110 の内側に設けた落下防止手段 114 と、主体部材 150 の落下防止手段 157 とが、主体部材 150 が固定枠部材 110 から引き抜かれる寸前で係合し、落下防止手段 157 の先端側を上方から下方に指で押すと、落下防止手段 157 の先端部が図面下側に傾斜して落下防止手段 114・157 の係合が解除するように設けた。



【特許請求の範囲】

【請求項1】 遊技媒体貸出機の上部に設置されて遊技機に並設される台間紙幣受入搬送装置において、遊技媒体貸出機の上部に設置される固定枠部材と、この固定枠部材に挿脱可能に設置され、前面より受け入れる紙幣を背面に設置される主搬送装置に受け渡す主体部材とからなり、主体部材が完全に引き抜かれる前に互いに係合して主体部材の落下を防止する落下防止手段が固定枠部材と主体部材とに設けられたことを特徴とする台間紙幣受入搬送装置。

【請求項2】 落下防止手段同士の係合を指圧で解除可能に少なくとも一方の落下防止手段がばね部材を利用して形成されたことを特徴とする請求項1記載の台間紙幣受入搬送装置。

【発明の詳細な説明】

【0001】

【発明の属する技術分野】本発明は、遊技場ホールにおいてパチンコ機やスロットマシンなどの遊技機に並設される遊技媒体貸出機の上部に設置され、遊技に使用するパチンコ玉やメダルなどの遊技媒体を遊技客が借りる際に支払う紙幣の投入口を前面部に有し、その投入口に入れられた紙幣を背面に設置される主搬送装置まで搬送する台間紙幣受入搬送装置に関するものである。

【0002】

【従来の技術】台間紙幣受入搬送装置100は、例えば図3に示したように横並びに設置されるパチンコ機やスロットマシンなどの遊技機400の間に設置される。

【0003】図3に示した台間紙幣受入搬送装置100は、図4に示したように遊技媒体貸出機300の上部に取り付けられる固定枠部材110と、この固定枠部材110に挿脱可能に設けられた主体部材150とからなり、主体部材150は遊技客が遊技に使用するパチンコ玉やメダルなどの遊技媒体を借りる際に支払う紙幣を入れるための紙幣投入口151を前面部に有すると共に、内部には紙幣投入口151に投入された紙幣900の真贋をチェックする紙幣チェック手段、背面側に搬送する搬送手段など（何れも図示せず）を備えて構成されている。

【0004】紙幣投入口151に投入される紙幣900の中には使い古されたものもあり、主体部材150の紙幣搬送手段や、背面部に設置される主搬送装置200などで紙幣詰まりが発生することがあるので、詰まった紙幣が簡単に取り除けるように主体部材150は固定枠部材110から引き抜ける構造になっている。

【0005】また、台間紙幣受入搬送装置100は、主体部材150が固定枠部材110から引き抜かれると、その背面部に設置されている主搬送装置200が丸見えとなり、そこを搬送されている紙幣を抜き取ることも可能になるので、主搬送装置200により遊技島450の端部に設けられた金庫201に向けて搬送されている紙

幣が、素行の悪い遊技客や下級店員に盗み取られることがないように、例えば図4に示したような引抜防止機構が設けられている。

【0006】すなわち、図4に示した構成の台間紙幣受入搬送装置100においては、固定枠部材110の垂直板部材からなる引抜防止手段111と、主体部材150の上部にビス152とコイルばね153とで図面下向きに付勢して取り付けられ、先端部が背面側に突出した板ばねからなる引抜防止手段154の下向きに屈曲した係合部分155とが、主体部材150が固定枠部材110の前面部から奥の設置部に押し込まれたときに係合して抜き取ることができなくすると共に、台間紙幣受入搬送装置100が設置されている上側の幕板451を開錠して図4のように開き、腕500を差し込み、係合部分155の下端部から上方に傾斜した操作部156に指501を掛けて図面上向きの力を加えると、コイルばね153が変形して操作部156の側が持ち上げられ、固定枠部材110の引抜防止手段111と、主体部材150側の引抜防止手段154の係合部分155との係合が解除され、主体部材150の前方への引き抜きが可能になっている。

【0007】

【発明が解決しようとする課題】しかし、上記図4に示した構成の台間紙幣受入搬送装置においては、引抜防止手段同士の係合を解除すると、主体部材をそのまま引き抜くことができたため、投入紙幣の真贋をチェックしたり、背面側の主搬送装置に向けて搬送する手段を備えて重くなった主体部材を足の上に落として怪我をしたり、装置を壊すことがあったので、主体部材を落とすことがない構成にする必要があり、これが解決すべき課題であった。

【0008】

【課題を解決するための手段】本発明は上記従来技術の課題を解決するため、遊技媒体貸出機の上部に設置されて遊技機に並設される台間紙幣受入搬送装置において、遊技媒体貸出機の上部に設置される固定枠部材と、この固定枠部材に挿脱可能に設置され、前面より受け入れる紙幣を背面に設置される主搬送装置に受け渡す主体部材とからなり、主体部材が完全に引き抜かれる前に互いに係合して主体部材の落下を防止する落下防止手段を固定枠部材と主体部材とに設けるようにした第1の構成の台間紙幣受入搬送装置と、

【0009】前記第1の構成の台間紙幣受入搬送装置1において、落下防止手段同士の係合を指圧で解除可能に少なくとも一方の落下防止手段をばね部材を利用して形成するようにした第2の構成の台間紙幣受入搬送装置と、を提供するものである。

【0010】

【発明の実施の形態】以下、本発明の一実施形態を図面に基づいて説明する。図1と図2に示した本発明の台間

紙幣受入搬送装置100は、前記図4に示した台間紙幣受入搬送装置100が備えていなかった係合解除手段112と落下防止手段114・157とを備えている。

【0011】棒状の係合解除手段112は、例えば図面右側が開いた断面コ字状に板部材から屈曲形成され、固定枠部材110に挿入設置された主体部材150の引抜防止手段154の操作部156の下側に上端部が位置し、下端部は遊技媒体貸出機300の天板301に開設した穴302を抜けて、施錠可能な遊技媒体貸出機300の内側に位置し、屈曲形成した下端部の操作部113を握るなどして上方に押し上げると、上端部が引抜防止手段154の操作部156の下側に当たり、さらに押し上げてコイルばね153を変形させると、固定枠部材110の引抜防止手段111と主体部材150の引抜防止手段154（操作部156）との係合が解除されるように設けられている。

【0012】すなわち、遊技媒体貸出機300は、店長またはそれに代わる上級店員が所持している鍵303によって前扉304の施錠／開錠が可能に設けられており、前面が開放される遊技媒体貸出機300の内部に係合解除手段112の下端部の操作部113が位置し、その部分を握るなどして係合解除手段112を上方に押し上げて、固定枠部材110の引抜防止手段111と主体部材150の引抜防止手段154（操作部156）との係合が解除できるように構成されている。

【0013】また、係合解除手段112は、遊技媒体貸出機300の内部に埋没することがないように上側が天板301の穴302より太く形成されている。すなわち、係合解除手段112は段部112aより上側が穴302より太く、段部112aより下側が穴302より細く、段部112aが穴302の周りの天板301に係合して落下しないようになっている。

【0014】したがって、主体部材150を固定枠部材110の所定の位置まで押し込んで、主体部材150の引抜防止手段154と固定枠部材110の引抜防止手段111とを係合させ、遊技媒体貸出機300の前扉304を施錠することで、係合解除手段112の操作ができなくなり、主体部材150を引き抜くことができなくなるので、主搬送装置200によって金庫201に搬送されている紙幣が素行の悪い遊技客や下級店員によって盗み取られることがない。

【0015】一方、開錠して遊技媒体貸出機300の前扉304を開けると、腕500をその中に入れて係合解除手段112を押し上げ、主体部材150の引抜防止手段154と固定枠部材110の引抜防止手段111との係合を解除することが可能であり、その状態で主体部材150を固定枠部材110から引き抜くことができるので、主搬送装置200で金庫201に搬送している紙幣が詰まっても、容易にその詰まった紙幣を取り除くことができる。

【0016】落下防止手段157は、フック状に形成されたものであり、主体部材150に引抜防止手段154を図面下向きに付勢して固定しているビス152とコイルばね153とで、同じ主体部材150に図面上向きに付勢して取り付けられている。この落下防止手段157は、主体部材150が固定枠部材110から引き抜かれる寸前で、固定枠部材110の前側の内側に突出して設けた落下防止手段114に係合し、そのまま前方への引き抜きを防止するものであり、先端側を上方から下方に指で押すとコイルばね153が変形して先端部が図面下方向に傾斜し、落下防止手段114との係合が解除されるものである。

【0017】したがって、投入された紙幣900の真贋をチェックしたり、背面側の主搬送装置200に向けて搬送する手段を備えているために重くなっている主体部材150を、固定枠部材110から不用意に引き抜いて落とすと云ったことがない。

【0018】また、この台間紙幣受入搬送装置100においては、支持部材158により固定枠部材110側が支持された上下2本の連結部材115を介して、固定枠部材110が主搬送装置200と連結され、主体部材150が重くなっても全体が前傾しないように構成されている。

【0019】なお、本発明は上記実施形態に限定されるものではないので、特許請求の範囲に記載の趣旨から逸脱しない範囲で各種の変形実施が可能である。

【0020】例えば、引抜防止手段154・落下防止手段157は、板ばねを利用して形成することもできる。そして、引抜防止手段154・落下防止手段157を板ばね部材で形成するときには、引抜防止手段152と落下防止手段157とを一つの板部材から、すなわち引抜防止手段152を例えば大きく形成し、そこにスリットを入れて中央部分を上に引き上げ、この引き上げた部分で落下防止手段157を形成するようにしてもよい。

【0021】また、固定枠部材110の落下防止手段114と主体部材150の落下防止手段157とは、それぞれの部材の側板部分や底板部分などに係合可能に設けることも可能である。

【0022】

【発明の効果】以上説明したように本発明によれば、台間紙幣受入搬送装置の主体部材が固定枠部材から引き抜かれる寸前に引き抜きができなくなるので、主体部材が重くても足の上に落として怪我をしたり、装置を壊すと云ったことがなくなる。

【図面の簡単な説明】

【図1】本発明の一実施形態を示す説明図であり、主体部材が所定位置に収納設置されている状態を示す図である。

【図2】本発明の一実施形態を示す説明図であり、主体部材が手前に引き出されている状態を示す図である。

【図3】一実施形態の利用形態を示す説明図である。

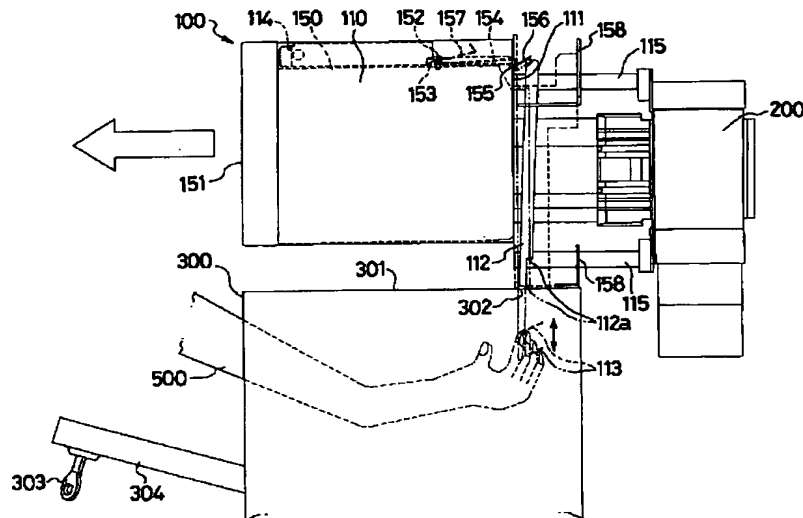
【図4】従来技術を示す説明図である。

【符号の説明】

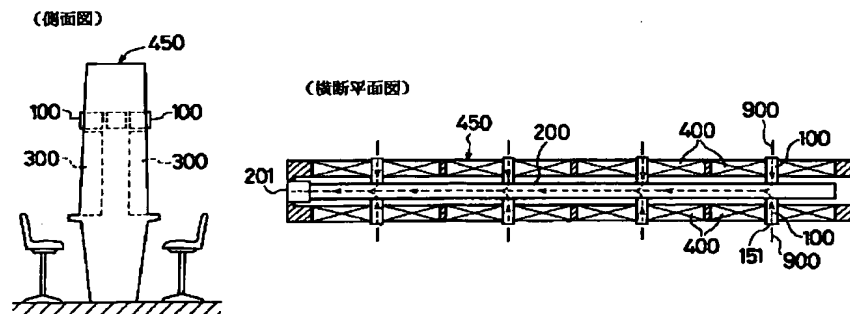
100 台間紙幣受入搬送装置
110 固定枠部材
111 引抜防止手段
112 係合解除手段
113 操作部
114 落下防止手段
115 連結部材
150 主体部材
151 紙幣投入口
152 ビス
153 コイルばね
154 引抜防止手段
155 係合部分

* 156 操作部
157 落下防止手段
158 支持部材
200 主搬送装置
201 金庫
300 遊技媒体貸出機
301 天板
302 穴
303 鍵
304 前扉
400 遊技機
450 遊技島
451 幕板
500 腕
501 指
* 900 紙幣

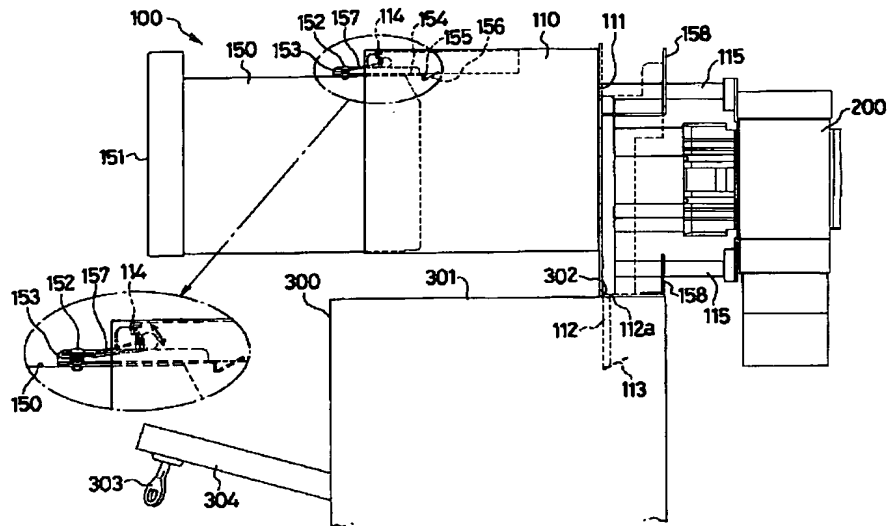
【図1】



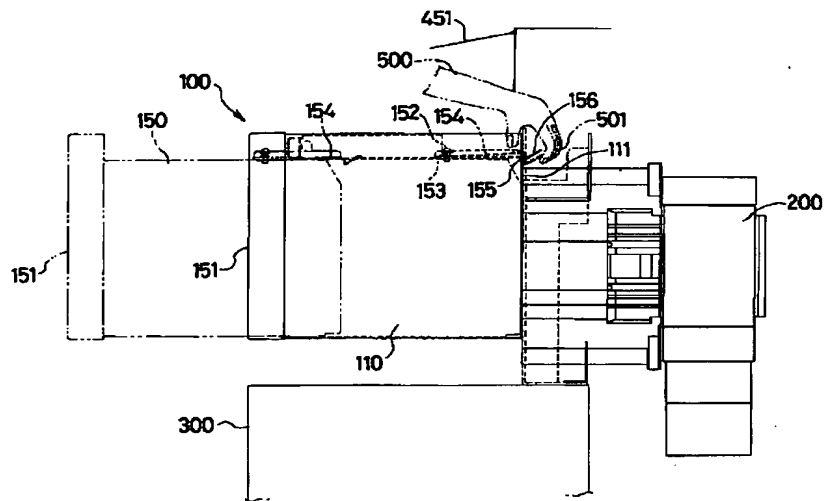
【図3】



【図2】



【図4】



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